

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended). A printable, coated, biaxially oriented film, comprising:

(a) a polymeric base film having a predominant polymer, and a first and a second side, ~~said base film comprising polypropylene, said predominant polymer being polypropylene;~~
and

(b) a urethane coating on said first side, said coating having been applied to said base film between a machine direction orientation and a transverse direction orientation of a two step tentering operation.

Claim 2 (original). The film of claim 1, wherein the base film additionally comprises a base film antiblock agent.

Claim 3 (original). The film of claim 2, wherein the base film antiblock agent is present at up to 1% by weight of the film.

Claim 4 (original). The film of claim 2, wherein the base film antiblock agent is present at up to 0.5% by weight of the film.

Claim 5 (original). The film of claim 2, wherein the base film antiblock agent is an antiblock agent selected from the group consisting of silica-based, silicone-based, and a blend of silica-based and silicone-based antiblock agents.

Claim 6 (original). The film of claim 1, wherein the urethane coating comprises a waterborne urethane dispersion.

Claim 7 (original). The film of claim 1, wherein the urethane coating comprises a waterborne urethane dispersion blended with waterborne acrylic dispersions.

Claim 8 (original). The film of claim 1, wherein the urethane coating comprises a crosslinking agent.

Claim 9 (original). The film of claim 8, wherein the crosslinking agent is present in the coating at up to 1% by dry weight.

Claim 10 (original). The film of claim 8, wherein the crosslinking agent is polyfunctional aziridine crosslinking agent at up to 1% by dry weight of the coating.

Claim 11 (original). The film of claim 1, wherein the urethane coating comprises a coating antiblock agent.

Claim 12 (original). The film of claim 11, wherein the urethane coating comprises up to 1% coating antiblock agent based on dry component weight of the coating.

Claim 13 (original). The film of claim 11, wherein the base film antiblock agent is an antiblock agent selected from the group consisting of silica-based, silicone-based, and a blend of silica-based and silicone-based antiblock agents.

Claim 14 (original). The film of claim 1, including a surface treatment on the first side beneath the urethane coating.

Claim 15 (original). The film of claim 14, wherein the surface treatment on the first side comprises an oxidative treatment.

Claim 16 (original). The film of claim 1, including a surface treatment on the second side.

Claim 17 (original). The film of claim 16, wherein the surface treatment on the second side comprises an oxidative treatment.

Claim 18 (original). The film of claim 1, wherein the polypropylene is a polypropylene homopolymer.

Claim 19 (original). The film of claim 1, wherein the polypropylene is a copolymer of propylene.

Claim 20 (original). The film of claim 1, wherein the polypropylene is a blend of homopolymers and copolymers.

Claim 21 (original). The film of claim 1, wherein the base film is a coextruded structure.

Claim 22 (original). The film of claim 21, wherein the coextruded structure has at least three layers.

Claim 23 (original). The film of claim 21, wherein the coextruded structure includes a core and at least one skin layer.

Claim 24 (original). The film of claim 1, wherein the base film is an extruded film that has an additional layer added by extrusion coating.

Claim 25 (withdrawn). A method for manufacturing a printable polypropylene film comprising the steps of:

- (a) forming a base film comprising a substantially uniform film layer comprising

polypropylene;

- (b) uniaxially orienting the base film by machine direction stretching of the base film;
- (c) applying a coating of urethane to a first side of the uniaxially oriented base film;

and

- (d) biaxially orienting the coated film by stretching the film transversely to the machine direction;

Claim 26 (withdrawn). The method of claim 25, wherein the step of forming the base film comprises forming the base film comprising a base film antiblock agent.

Claim 27 (withdrawn). The method of claim 25, wherein the step of forming the base film includes a step of forming the base film having a base film antiblock agent present at up to 1% by weight of the coating.

Claim 28 (withdrawn). The method of claim 25, wherein the step of forming the base film includes a step of forming the base film having a base film antiblock agent present at up to 0.5% by weight of the coating.

Claim 29 (withdrawn). The method of claim 26, wherein the base film antiblock agent is an antiblock agent selected from the group consisting of silica-based, silicone-based, and a blend of silica-based and silicone-based antiblock agents.

Claim 30 (withdrawn). The method of claim 25, wherein the step of applying a coating comprises a step of applying a waterborne urethane dispersion.

Claim 31 (withdrawn). The method of claim 25, wherein the step of applying a coating comprises a step of applying a waterborne urethane dispersion blended with waterborne acrylic dispersions.

Claim 32 (withdrawn). The method of claim 25, wherein the step of applying a coating of urethane comprises a step of applying a coating of urethane having a coating crosslinking agent.

Claim 33 (withdrawn). The method of claim 25, wherein the step of applying a coating of urethane comprises a step of applying a coating having a coating crosslinking agent present at up to 1% by weight of the coating.

Claim 34 (withdrawn). The method of claim 25, wherein the step of applying a coating of urethane comprises a step of applying a coating of urethane having a polyfunctional aziridine crosslinking agent at approximately 1% by dry weight of the coating.

Claim 35 (withdrawn). The method of claim 25, wherein the step of applying a coating comprises applying a urethane coating comprising a coating antiblock agent.

Claim 36 (withdrawn). The method of claim 25, wherein the step of applying a coating comprises applying a urethane coating comprising up to 1% antiblock agent based on dry component weight.

Claim 37 (withdrawn). The method of claim 25, wherein the base film antiblock agent is an antiblock agent selected from the group consisting of silica-based, silicone-based, and a blend of silica-based and silicone-based antiblock agents.

Claim 38 (withdrawn). The method of claim 25, including a step of surface treating the first side prior to the step of applying the coating of urethane.

Claim 39 (withdrawn). The method of claim 38, wherein the step of surface treating the first side includes oxidatively treating.

Claim 40 (withdrawn). The method of claim 25, including the step of surface treating the second side.

Claim 41 (withdrawn). The method of claim 40, wherein the step of surface treating the second side comprises oxidative treating.

Claim 42 (withdrawn). The method of claim 25, wherein the step of forming the film base

film comprising a substantially uniform film layer comprising polypropylene includes forming the base film comprising polypropylene homopolymer.

Claim 43 (withdrawn). The method of claim 25, wherein the step of forming the base film comprising a substantially uniform film layer comprising polypropylene includes forming the base film comprising propylene copolymer.

Claim 44 (withdrawn). The method of claim 25, wherein the step of forming the base film comprising a substantially uniform film layer comprising polypropylene includes forming the base film comprising a blend of homopolymers and copolymers.

Claim 45 (withdrawn). The method of claim 25, wherein the step of forming the base film includes coextruding a base film.

Claim 46 (withdrawn). The method of claim 25, wherein the step of forming the base film includes coextruding a three layer base film.

Claim 47 (withdrawn). The method of claim 25, wherein the step of forming the base film includes coextruding a base film having a core and at least one skin layer.

Application Serial No. 10/803,360
Amendment Dated September 13, 2005
Reply to Office Action of June 21, 2005

Claim 48 (withdrawn). The method of claim 25, wherein the step of forming the base film includes forming an extruded film that has an additional layer added by extrusion coating.